

PATNO IS 5601997

DATE: JUNE 28, 2002  
LIBRARY: PATENT  
FILE: ALL

Your search request is:  
PATNO IS 5601997

Number of PATENTS found with your search request through:  
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.  
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.  
To MODIFY your search request, press the M key (for MODFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

1. 5601997 , February 11, 1997 , Chemotaxis assay procedure , Tchao, Ruy,  
Philadelphia College of Pharmacy and Science, 600 S. 43rd St. Philadelphia, PA  
19104, 08383058

CORE TERMS: cell, radiation, membrane, opaque, f-mlp, insert, labeled, filter,  
chemotaxis, sup ...

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5601997

<=1> GET 1st DRAWING SHEET OF 7

February 11, 1997

Chemotaxis assay procedure

REISSUE: December 23, 1999 - Reissue Application filed Dec. 23, 1999 (O.G. Mar. 7, 2000) Ex. Gp.: 1741; Re. S.N. 09/472,490Reissue Application filed Sep. 23, 1998 (O.G. Nov. 3, 1998) Ex. Gp.: 1761; Re. S.N. 09/159,427March 7, 2000

APPL-NO: 08383058

FILED-DATE: February 3, 1995

GRANTED-DATE: February 11, 1997

CORE TERMS: cell, radiation, membrane, opaque, f-mlp, insert, labeled, filter, chemotaxis, sup ...

ENGLISH-ABST:

A chemotaxis assay procedure which is non-destructive of the cells being studied, which permits the ready performance of kinetic or time- dependent study of cell migration from the same sample, and which produces objective measurements includes the steps of: (a) labeling cells with a dye; (b) placing the labeled cells in a first chamber; (c) placing a chemical agent in a second chamber adjacent to said first chamber; (d) separating said first chamber from said second chamber with a radiation opaque membrane, said radiation opaque membrane having a plurality of substantially perpendicular transverse pores therein; (e) stimulating the labeled cells on the side of the membrane closest to said second chamber with electromagnetic radiation of a first wavelength whereby said labeled cells will emit electromagnetic radiation of a second wavelength; and (f) measuring the emitted electromagnetic radiation from the side of the radiation opaque membrane closest to the second chamber; wherein said radiation opaque membrane comprises a film which is not substantially

5601997 OR 5,601,997

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

**Current session 28/06/2002**

(C) QUESTEL 1994

QUESTEL.ORBIT (TM) 1998

Last connection: 26/06/02 21\*43\*08

28/06/02 15\*50\*23

WELCOME to QUESTEL.ORBIT-Your Guide to INTELLECTUAL PROPERTY  
www.questel.orbit.com - Gateway, documentation & IP resource  
- New Family displays w LEGAL option, etc: INFO NEWS-PLUSPAT  
- PlusPat Family w Legal Status in ONE record: INFO MFAMSTAT  
- Now 9 million Images w PlusPat displays : INFO IMG-PLUSPAT  
- Latest EP, WO & US Applications in One Alert: INFO APPALERT  
- New format and database names, see INFO COMPU-MARK  
- File access codes changes: INFO FILECODES  
- EPAPAT contains all unique EPTEXT data. EPTEXT file removed  
- SERVICE SHUTDOWN SUNDAY 30 JUNE - SEE INFO STOP  
.FILE / ..INFO / ..GUIDE

**Query/Command : file pluspat**

QUESTEL - Time in minutes : 1,23  
The cost estimation below is based on Questel's  
standard price list

Estimated cost : 1.06 USD  
Cost estimated for the last database search : 1.06 USD  
Estimated total session cost : 1.06 USD

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database  
New Family Legstat & LEGAL Displays; INFO MFAMSTAT & INFO NEWS-PLUSPAT  
Last database update: 2002/06/26 (YYYY/MM/DD) 2002-25/UP (basic update)

Search statement 1

**Query/Command : us5601997/pn****\*\* SS 1: Results 1**

Search statement 2

**Query/Command : prt full nonstop legalall**

## 1/1 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US5601997 A 19970211 [US5601997]  
**TI** - (A) Chemotaxis assay procedure  
**IN** - (A) TCHAO RUY (US)  
**AP** - US38305895 19950203 [1995US-0383058]  
**PR** - US38305895 19950203 [1995US-0383058]  
**IC** - (A) C12Q-001/02  
**EC** - G01N-021/64H  
G01N-033/50D2  
**PCL** - ORIGINAL (O) : 435029000; CROSS-REFERENCE (X) : 435034000  
**DT** - Corresponding document  
**CT** - US4912037; US5210021; US5284753; US5302515; GB1581766  
Stephen Boyden, Ph.D., "The Chemotactic Effect of Mixtures of Antibody and Antigen on Polymorphonuclear Leucocytes" J. Exp. Med. 115: pp. 453-466, (1962).

Zichia et al., A New Direct Viewing Chemotaxis Chamber, Journal of Cell Science 99, 769-775 (1991).

Wilkinson, Micropore Filter Methods for Leukocyte Chemotaxis, Methods in Enzymology 162, 38-50 (1988).

NeuroProbe MB Series Microtiter Plate Chambers, NeuroProbe, Inc. (1994).

**STG** - (A) United States patent  
**AB** - A chemotaxis assay procedure which is non-destructive of the cells being studied, which permits the ready performance of kinetic or time-dependent study of cell migration from the same sample, and which produces objective measurements includes the steps of:(a)labeling cells with a dye; (b) placing the labeled cells in a first chamber; (c) placing a chemical agent in a second chamber adjacent to said first chamber; (d) separating said first chamber from said second chamber with a radiation opaque membrane, said radiation opaque membrane having a plurality of substantially perpendicular transverse pores therein; (e) stimulating the labeled cells on the side of the membrane closest to said second chamber with electromagnetic radiation of a first wavelength whereby said labeled cells will emit electromagnetic radiation of a second wavelength; and (f) measuring the emitted electromagnetic radiation from the side of the radiation opaque membrane closest to the second chamber; wherein said radiation opaque membrane comprises a film which is not substantially transmissive to at least one of said first and second wavelengths of electromagnetic radiation. The radiation opaque membrane may comprise a dyed film or a film which has at least one radiation blocking layer applied thereto.

---

*1/1 LGST - ©LEGSTAT*

**PN** - US 5601997 [US5601997]  
**AP** - US 383058/95 19950203 [1995US-0383058]  
**DT** - US-P  
**ACT** - 19950203 US/AE-A  
APPLICATION DATA (PATENT)  
US 383058/95 19950203 [1995US-0383058]

19970211 US/A  
PATENT

19981103 US/RF  
REISSUE APPLICATION FILED  
980923

20000307 US/RF  
REISSUE APPLICATION FILED  
19991223

**UP** - 2000-10

---

*1/1 CRXX - ©CLAIMS/RRX*

**PN** - 5,601,997 A 19970211 [US5601997]  
**PA** - Tchao, Ruy  
**ACT** - 19980923 REISSUE REQUESTED  
Issue Date of O.G.: 19981103  
Reissue Request Number: 09/159427  
Examination Group responsible for Reissue process: 1761

19991223 REISSUE REQUESTED  
Issue Date of O.G.: 20000307  
Reissue Request Number: 09/472490  
Examination Group responsible for Reissue process: 1741

---

*1/2 PAST - ©Thomson Derwent*

**AN** - 200010-001232  
**PN** - 5601997 A [US5601997]  
**OG** - 2000-03-07  
**ACT** - REISSUE APPLICATION FILED

---

2/2 PAST - ©Thomson Derwent

AN - 199844-001381

PN - 5601997 A [US5601997]

OG - 1998-11-03

ACT - REISSUE APPLICATION FILED

Query/Command : file inpadoc

PLUSPAT - Time in minutes : 0,40

The cost estimation below is based on Questel's  
standard price list

Records displayed and billed	Estimated cost :	0.88 USD
	:	1
Cost estimated for the last database search	Estimated cost :	1.10 USD
Estimated total session cost	:	1.98 USD
	:	3.04 USD

LGST - Time in minutes : 0,04

The cost estimation below is based on Questel's  
standard price list

Records displayed and billed	Estimated cost :	0.04 USD
	:	1
Cost estimated for the last database search	Estimated cost :	0.57 USD
Estimated total session cost	:	0.61 USD
	:	3.65 USD

CRXX - Time in minutes : 0,03

The cost estimation below is based on Questel's  
standard price list

Records displayed and billed	Estimated cost :	0.04 USD
	:	1
Cost estimated for the last database search	Estimated cost :	5.00 USD
Estimated total session cost	:	5.04 USD
	:	8.69 USD

PAST - Time in minutes : 0,04

The cost estimation below is based on Questel's  
standard price list

Records displayed and billed	Estimated cost :	0.07 USD
	:	2
Cost estimated for the last database search	Estimated cost :	11.22 USD
Estimated total session cost	:	11.29 USD
	:	19.98 USD

LITA - Time in minutes : 0,05

The cost estimation below is based on Questel's  
standard price list

Cost estimated for the last database search	Estimated cost :	0.09 USD
Estimated total session cost	:	0.09 USD
	:	20.07 USD

Selected file: INPADOC

You are now connected to INPADOC

Covers 1968/1973 thru weekly updates (2002-24)

For information on content, ..INFO INPD.

Search statement 1

**Query/Command : fam 5601997/pn**

1 Patent Groups

**\*\* SS 1: Results 4**

Search statement 2

**Query/Command : famstate nonstop**

---

**1/4 INPADOC - ©INPADOC**

**PN** - GB 9601980 A0 19960403 [GB9601980]  
**TI** - CHEMOTAXIS ASSAY  
**PA** - TCHAO RUY  
**AP** - GB 9601980/96-A 19960131 [1996GB-0001980]  
**PR** - US 383058/95-A 19950203 [1995US-0383058]

---

**2/4 INPADOC - ©INPADOC**

**PN** - GB 2297615 A1 19960807 [GB2297615]  
**TI** - CHEMOTAXIS ASSAY PROCEDURE AND MEMBRANE FOR USE THEREIN  
**IN** - TCHAO RUY  
**PA** - TCHAO RUY [US]  
**AP** - GB 9601980/96-A 19960131 [1996GB-0001980]  
**PR** - US 383058/95-A 19950203 [1995US-0383058]  
**IC** - G01N-021/64

---

**1/1 LEGALI - ©LEGSTAT**

**PN** - GB 2297615 [GB2297615]  
**AP** - GB 9601980/96 19960131 [1996GB-0001980]  
**DT** - GB-P  
**ACTE** - 19960131 GB/AE-A  
APPLICATION DATA  
GB 9601980/96 19960131 [1996GB-0001980]  
  
19960807 GB/A1  
APPLICATION PUBLISHED  
  
19990421 GB/B2 [+]  
PATENT GRANTED  
**UP** - 1999-18

---

**3/4 INPADOC - ©INPADOC**

**PN** - GB 2297615 B2 19990421 [GB2297615]  
**TI** - CHEMOTAXIS ASSAY PROCEDURE AND MEMBRANE FOR USE THEREIN  
**IN** - TCHAO RUY  
**PA** - TCHAO RUY [US]  
**AP** - GB 9601980/96-A 19960131 [1996GB-0001980]  
**PR** - US 383058/95-A 19950203 [1995US-0383058]  
**IC** - G01N-021/64

---

**1/1 LEGALI - ©LEGSTAT**

**PN** - GB 2297615 [GB2297615]  
**AP** - GB 9601980/96 19960131 [1996GB-0001980]  
**DT** - GB-P  
**ACTE** - 19960131 GB/AE-A  
APPLICATION DATA  
GB 9601980/96 19960131 [1996GB-0001980]  
  
19960807 GB/A1  
APPLICATION PUBLISHED  
  
19990421 GB/B2 [+]  
PATENT GRANTED  
**UP** - 1999-18

---

**4/4 INPADOC - ©INPADOC**

**PN** - US 5601997 A 19970211 [US5601997]  
**TI** - CHEMOTAXIS ASSAY PROCEDURE  
**IN** - TCHAO RUY [US]  
**PA** - TCHAO RUY [US]  
**AP** - US 383058/95-A 19950203 [1995US-0383058]  
**PR** - US 383058/95-A 19950203 [1995US-0383058]  
**IC** - C12Q-001/02

---

1/1 LEGALI - ©LEGSTAT

**PN** - US 5601997 [US5601997]

**AP** - US 383058/95 19950203 [1995US-0383058]

**DT** - US-P

**ACTE** - 19950203 US/AE-A

APPLICATION DATA (PATENT)

US 383058/95 19950203 [1995US-0383058]

19970211 US/A

PATENT

19981103 US/RF

REISSUE APPLICATION FILED

980923

20000307 US/RF

REISSUE APPLICATION FILED

19991223

**UP** - 2000-10